

WHAT IS CLAIMED IS:

1. A conditioning agent for conditioning a water component selected from the group consisting of standing water systems and flowing water systems comprising a component selected from the group consisting of an active content of polysuccinimide, partial hydrolysates of polysuccinimide, copolymers of polysuccinimide, mixtures thereof in combination with fatty acids or their derivatives.
2. The conditioning agent according to Claim 1, wherein the polysuccinimide is present in an amount ranging from about 0.1 to about 10,000 g/m³ to the water component.
3. The conditioning agent according to Claim 1, wherein the conditioning agent further comprises a hardness stabilizer selected from the group consisting of inorganic condensed phosphates, organophosphonic acids, phosphate esters, polyphosphoric esters, aminophosphates, succinamide, carbohydrates, polysaccharides, gluconates, polyglycosides, polyglucosides, derivatives thereof, polyoxycarboxylic acids, copolymers thereof, oxidized carbohydrates, proteins, water-soluble polyamino acids, silicates and zeolites.
4. The conditioning agent according to Claim 1, wherein the conditioning agent further comprises a dispersant component selected from the group consisting of tannin derivatives, lignin sulfonates, sulfonated condensation products of naphthalene with formaldehyde, polyacrylates, polymethacrylates, polyacrylamides, acrylate-based polymers, P-containing polymeric compounds, phosphinic-acid-containing homopolymers and copolymers of acrylic acid and acrylamide, oligomeric phosphinico-succinic acid compounds, sulfomethylated or sulfoethylated polyacrylamides and copolymers and terpolymers with acrylic acid and maleic ester, N-butylacrylamide, copolymers thereof, acrylamidopropionic sulfonic acid as salt and its copolymers, polymers and copolymers of maleic acid or maleic anhydride, phosphinoalkylated acrylamide polymers, copolymers with acrylic acid, and copolymers of alkenes with unsaturated dicarboxylic acids.

5. The conditioning agent according to Claim 1, wherein the conditioning agent further comprises complexing agents selected from the group consisting of iminodisuccinate, nitrilotriacetic acid, citric acid, ethylenediaminetetraacetic acid, ethercarboxylates, oxidized carbohydrates and phosphorus-containing compounds.

6. The conditioning agent according to Claim 1, wherein the agent further comprises additives.

7. The conditioning agent according to Claim 6, wherein the additives are biocides.

8. The conditioning agent according to Claim 1, wherein the polysuccinimide is in a form which the polysuccinimide has an increasing slow-release action.

9. A process comprising adding a conditioning agent to a water component selected from the group consisting of standing water systems and flowing water systems, wherein the composition comprises a component selected from the group consisting of active content of polysuccinimide, partial hydrolysates of polysuccinimide, copolymers of polysuccinimide, or mixtures thereof in combination with fatty acids or their derivatives and preventing deposits in the water component.

10. The process according to Claim 9, wherein from about 0.1 to about 10,000 g/m³ of polysuccinimide are added to the water to be conditioned.

11. The process according to Claim 9, wherein the flowing water system occurs in oil exploration or in tunnel drainage.

12. The process according to Claim 11, wherein from about 0.1 to about 10,000 g/m³ of polysuccinimide are added to the flowing water system.

13. The process according to Claim 9, wherein the water component further comprises biocides.

14. The process according to Claim 9, wherein the water component further comprises aids to increase the slow-release properties of the polysuccinimide.

5 15. The process according to Claim 9, wherein the polysuccinimide is added to the water component and the process prevents deposits in a swimming pool.

16. The process according to Claim 9, wherein the deposits are selected from the group consisting of calcium carbonate, magnesium carbonate, calcium sulfate, silicates, barium sulfate and iron oxides.

10 17. A system comprising (i) a water component selected from the group consisting of standing water systems and flowing water systems and (ii) a conditioning agent for conditioning the water component, wherein the conditioning agent comprises a component selected from the group
15 consisting of an active content of polysuccinimide, partial hydrolysates of polysuccinimide, copolymers of polysuccinimide, or mixtures thereof in combination with fatty acids or their derivatives.

18. The system according to Claim 17, wherein the polysuccinimide is present in an amount ranging from about 0.1 to about 10,000 g/m³ to the water component.

20 19. The system according to Claim 17, wherein the conditioning agent further comprises a hardness stabilizer selected from the group consisting of inorganic condensed phosphates, organophosphonic acids, phosphate esters, polyphosphoric esters, aminophosphates, succinamide, carbohydrates, polysaccharides, gluconates, polyglycosides, polygluco-
25 sides, derivatives thereof, polyoxycarboxylic acids, copolymers thereof, oxidized carbohydrates, proteins, water-soluble polyamino acids, silicates and zeolites.

20. The system according to Claim 17, wherein the conditioning agent further comprises a dispersant component selected from the group
30 consisting of tannin derivatives, lignin sulfonates, sulfonated condensation products of naphthalene with formaldehyde, polyacrylates, polymethacrylates, polyacrylamides, acrylate-based polymers, P-

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containing polymeric compounds, phosphinic-acid-containing homopolymers and copolymers of acrylic acid and acrylamide, oligomeric phosphinico-succinic acid compounds, sulfomethylated or sulfoethylated polyacrylamides and copolymers and terpolymers with acrylic acid and maleic ester, N-butylacrylamide, copolymers thereof, acrylamidopropionic sulfonic acid as salt and its copolymers, polymers and copolymers of maleic acid or maleic anhydride, phosphinoalkylated acrylamide polymers and copolymers with acrylic acid, copolymers of alkenes with unsaturated dicarboxylic acids.

10 21. The system according to Claim 17, wherein the conditioning agent further comprises complexing agents selected from the group consisting of iminodisuccinate, nitrilotriacetic acid, citric acid, ethylenediaminetetraacetic acid, ethercarboxylates, oxidized carbohydrates and phosphorus-containing compounds.

15 22. The system according to Claim 17, wherein the agent further
comprises additives.

23. The system according to Claim 22, wherein the additives are biocides.

24. The system according to Claim 17, wherein the combination
20 of polysuccinimide and fatty acids or their derivatives are in a form which
the polysuccinimide has an increasing slow-release action.